DETAILED ACTION

1. This communication is responsive to Appeal Brief filed 02/26/08.

Claims 83-116 are pending in this application. Claims 83, 99, 101 are independent claims.

Terminal Disclaimer

2. The terminal disclaimer filed on 04/10/08 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of USP 7,162,479 has been reviewed and is accepted. The terminal disclaimer has been recorded.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative Jeffri Kaminski, on April 09, 2008.

The application has been amended as follows:

- **Cancel claims 84-86, 98**
- **Claim 83 has been amended as:**

A computer readable medium for storing data for access by an application program, comprising:

a file format defining a structure of a file stored in said computer readable medium, the file format including,

elements stored in the computer readable medium, the elements being variable sized data records arranged in a format that can be interpreted by a computer program,

element chunks stored in the computer readable medium, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements,

a model stored in the computer readable medium, the model including groups of related element chunks and a model header stream, the model header stream including at least one of a model name, units, or a geometric range for the model,

element lists including element chunks classified according to their meaning in the model, the element lists including the unique name for each element chunk in the respective element list, wherein the elements include control elements having no physical representation and graphic elements having a graphical representation, wherein the element lists include a graphic element list listing the graphic elements and a control element list listing the control elements, wherein at least one element chunk in said graphic element list is encrypted and compressed, and

a root storage stored in the computer readable medium, the root storage including at least one model.

- **Cancel claim 100**
- **Claim 99 has been amended as:**

A computer program product comprising a computer readable medium having a computer program logic stored therein, the computer program logic comprising:

means for enabling said computer system to allocate elements having a variable size to element chunks, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements;

means for enabling said computing unit to store in the computer readable medium at least one model, wherein said at least one model is for grouping related elements, is identifiable by a unique identifier, and comprises a control element list having variable sized element chunks containing control elements, and a graphic element list having variable sized element chunks containing graphic elements;

means for compressing each element chunk stream to be stored in said graphic element list storage or said control model list storage in said control model directory,

means for enabling said computer system to store a graphic element list storage and a control element list storage in each control model; and

means for enabling a computing unit to store a root storage comprising the model in the computer readable medium.

- **Cancel claims 102-104, 116**
- **Claim 101 has been amended as:**

A CAD design file having a file format and stored on a computer readable medium, the CAD design file comprising:

elements representing items of the CAD design, the elements being variable sized data records arranged in a format that can be interpreted by a computer program,

element chunks including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements, the element chunks having a variable size, the groups of elements including control elements having no physical representation and graphic elements having a graphical representation,

a model, the model including groups of related element chunks and a model header stream, the model header stream including at least one of a model name, units, or a geometric range for the model,

element lists including element chunks classified according to their meaning in the model, the element lists including the unique name for each element chunk in the respective element list, wherein the elements include control elements having no

physical representation and graphic elements having a graphical representation, wherein the element lists include a graphic element list listing the graphic elements and a control element list listing the control elements, wherein at least one element chunk in said graphic element list is encrypted and compressed, and

a root storage including at least one model and a control model storing information shared across other models in the root storage.

Reasons for Allowance

4. Claims 83, 87-97, 99, 101, 105-115 are allowed, now renumbered as 1-25.

5. The following is a statement of reasons for the indication of allowable subject matter:

The present invention is directed to formatting of large data files to promote efficient data storage and transmission.

Claim 83 recites, or similarly recites, in combination with the remaining elements, a computer readable medium comprising: a file format defining a structure of a file including:

elements stored in the computer readable medium, the elements being variable sized data records arranged in a format that can be interpreted by a computer program,

element chunks stored in the computer readable medium, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements,

a model, the model including groups of related element chunks and a model header stream, the model header stream including at least one of a model name, units, or a geometric range for the model,

element lists including element chunks classified according to their meaning in the model, the element lists including the unique name for each element chunk in the respective element list, wherein the elements include control elements having no physical representation and graphic elements having a graphical representation, wherein the element lists include a graphic element list listing the graphic elements and a control element list listing the control elements, wherein at least one element chunk in said graphic element list is encrypted and compressed, and

a root storage including at least one model and a control model storing information shared across other models in the root storage.

The closest prior art, et al. Selvin et al. (U.S. Patent No. 6,718,329), shows a substantially similar method for generating nodes and links for a hypertext database from a source document (Abstract). Although Selvin discloses a source document is any data file that contains its data in text format properties, and the links and nodes that are the result of the process form a structural representation of the original source document that is suitable for conversation into hypertext database; and Shiba et al. (U.S. Pub No. 20010004245) teaches compressing, encrypting scheme for the elements, Selvin et al. and Shiba et al., singularly or in combination, fail to anticipate or render the above cited limitations obvious.

Claim 99 recites, or similarly recites, in combination with the remaining elements, the computer program product…, comprising:

means for enabling said computer system to allocate elements having a variable size to element chunks, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements;

means for enabling said computing unit to store in the computer readable medium at least one model, wherein said at least one model is for grouping related elements, is identifiable by a unique identifier, and comprises a control element list having variable sized element chunks containing control elements, and a graphic element list having variable sized element chunks containing graphic elements;

means for compressing each element chunk stream to be stored in said graphic element list storage or said control model list storage in said control model directory,

means for enabling said computer system to store a graphic element list storage and a control element list storage in each control model; and

means for enabling a computing unit to store a root storage comprising the model in the computer readable medium.

The closest prior art, et al. Selvin et al. (U.S. Patent No. 6,718,329), shows a substantially similar method for generating nodes and links for a hypertext database from a source document (Abstract). Although Selvin discloses a source document is any data file that contains its data in text format properties, and the links and nodes that are the result of the process form a structural representation of the original source document that is suitable for conversation into hypertext database; and Shiba et al. (U.S. Pub No. 20010004245) teaches compressing, encrypting scheme for the elements, Selvin et al. and Shiba et al., singularly or in combination, fail to anticipate or render the above cited limitations obvious.

Claim 101 recites, or similarly recites, in combination with the remaining elements, the steps of:

elements stored in the computer readable medium, the elements being variable sized data records arranged in a format that can be interpreted by a computer program,

element chunks stored in the computer readable medium, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name and a fixed header including at least one of a number of elements in the element chunk, a compression scheme, or an encryption scheme for the elements,

a model, the model including groups of related element chunks and a model header stream, the model header stream including at least one of a model name, units, or a geometric range for the model,

element lists including element chunks classified according to their meaning in the model, the element lists including the unique name for each element chunk in the respective element list, wherein the elements include control elements having no physical representation and graphic elements having a graphical representation, wherein the element lists include a graphic element list listing the graphic elements and a control element list listing the control elements, wherein at least one element chunk in said graphic element list is encrypted and compressed, and

a root storage including at least one model and a control model storing information shared across other models in the root storage.

The closest prior art, et al. Selvin et al. (U.S. Patent No. 6,718,329), shows a substantially similar method for generating nodes and links for a hypertext database from a source document (Abstract). Although Selvin discloses a source document is any data file that contains its data in text format properties, and the links and nodes that are the result of the process form a structural representation of the original source document that is suitable for conversation into hypertext

database; and Shiba et al. (U.S. Pub No. 20010004245) teaches compressing, encrypting scheme for the elements, Selvin et al. and Shiba et al., singularly or in combination, fail to anticipate or render the above cited limitations obvious.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham, can be reached on (571) 272-7079. The fax number to this Art Unit is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Miranda Le/
Primary Examiner, Art Unit 2167